

## Product datasheet for **RR201858**

### Rasgrp3 (NM\_001108009) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rasgrp3 (NM_001108009) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rasgrp3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR201858 representing NM\_001108009  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGGTCCAACGGCCTCGGAAAGCGGCGACACTAGATGAACCTCTCAGCACATGCATTGAGATGTTTG  
 ATGACAATGGAGAACTGAATGACAGCTACTTGCCAGAATCATGCTACTGATGCATCGATGGTATTTATC  
 CTCCTACTGAACTGGCAGGAAAACCTCTATGCATGTATCGAATGCCAGCGGAGAAAAGTTGTGATGAGTTC  
 CGACTGAAGATCTGCTATTTTCATGAGGACTGGATTACAAAATTTCTGCAGAGTTAATTTGGATCTTG  
 GTTTGATTCGCATGACTGAGGAGTTCGGGAAGTAGCTAGTCAACTAGGATATGAGAAACACAGCAACCT  
 CATGGACATATCCAGCATTCTTCTATGACTGGATGAGGAGAGTCACGCAGAGGAAAAAAGTATCAAAA  
 AGGGGAAAGGCCTGTCTTATTTGACCATCTGGAGCCATTGAATTGGCTGAGCACCTCACTTTTCTGG  
 AGCATAAATCTTTAGAAGGATCTGTTACAGATTATCAGAGCTACGTCATTATGGCTGCCTGGAGAA  
 TAACCCGACATTGGAGAGATCTATTGCCTATTTAATGGAATCTCTAAGTGGTCCAATTGATGGTCTTT  
 AGCAAACCAAGTCTCAACAAAGGGCGGAAGTCATCACAAAGTTCAATGATAGCACAGAACTCCTTC  
 AACTAAAAATTTAACACCTTGATGGCTGTGGTTGGTGGCCTTAGTCACAGCTCCATTTCCCGACTCAA  
 AGATACCCATTCTCACCTCTTCTGAAGTTACAAAGAACTGGAATGAGATGACAGAGTTGGTCTCCTCC  
 AACGGCAATTACTGCAATTACCGCAAGGCCTTGTGCTGACTGTGATGGCTTCAAAAATCCCATCCTTGGCG  
 TGCACTTGAAAGACTTGATAGCAGTCCATGTCAATTTCCAGACTGGATGGAAGAGAACAAAGTGAACGT  
 TGTGAAAATGCACCAGCTTCTGTTACCCTGAGTGAACGGTCTCCCTGCAGAAATGCCTCTCACCCTTG  
 GAGCCTAACATGGATTTGATCAACCTCCTCACTCTCTCTGGACCTCTACCACACAGAAGCAGATATTT  
 ATAAACTACACTGGTGGTGGAGCCTAGGAATTCAAAATCACAGCCAACCTTCCCCACAACACCTAATAA  
 GCCTGTGGTACCCTGGAGTGGGCTTCAAGTGGTACCAAAGCCAGACCCACAATCATCAACAAACAC  
 ATAAGGAAGTTGGTTGAGCTCTGGGCATAATCAAACAAGGCTACAAATGCAAAGACTGTGGAGCCAAC  
 GTCACAAACAGTGCAAAGACCTCTTGGTTCTGGCTGTAGGAGACTTGCCAGGGCACCTCCTTGAGCAG  
 CAACCCTGAGTCACTGCCTGGAAGCCAGCCTTGCCCCAGTGCAGGATGAGGTGTTGAGTTTCTGGC  
 GTCCTGCTAGACACCGAGACCTGGACAGCAGAGACATCACGCTGGTTACAGGATCTTCCCGTAAGATCT  
 CCGTGAGAGTGCAGAGAGCCACCACTAGTCAAGCCACGCAACCCGAACCTGTGTGGTGCAGAGGCTGTCTG  
 GGGAGACTCTGGTCCCACCTTCCCCAAAATGAAATCCAAGCTCCATGACAAAGCAGCAAAGGACAAA  
 GGCTTTGCCAAGTGGGAAAATGAAAAGCCACGCTACACGCTGGTGTGGATGTTGTAGATCGAGGCACTG  
 CATTTCGAACCTGACCAGGACGATGAGCAAGATGAAGCCCAACAGGGTGTGAGGATGGCCATTGCAACCT  
 GACCAGGACGATGAGCAAGATGAAGCCCAACAGGGTGTGAGGATGGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR201858 representing NM\_001108009  
 Red=Cloning site Green=Tags(s)

MGSNGLGKAATLDELLSTCIEMFDDNGELNDSYLPRIIMLMHRWYLSSTELAGKLLCMYRNASGESDEF  
 RLKICYFMRYWITKFPAEFNLDLGLIRMTEEFREVASQLGYEKHSNLMDISSIPSYDWMRRVTQRKKVSK  
 RGKACLLFDHLEPIELAEHLTFLEHKSFRRI SF TDYQSYVIHGCLENNPTLERSIALFNGISKWVQLMVL  
 SKPSAQQRAEVITKFINVAQKLLQLKNFNLMMAVVGGLSHSSI SRLKDTSHLSSEVTKNWNEMTELVS  
 NGNYCNYRKAFADCDGFKIPILGVHLKDLIAVHVIFPDWMEENKVNVMKMQLSVTLSELVSLQNASHHL  
 EPNMDL INLLTSLDLYHTEDDIYKLSL VLEPRNSKSQPTSPPTPNKPVVPLEWASEVVPKPDPTIINKH  
 IRKLVELWGI IKQGYKCKDCGANCHKQCKDLLVLACRRLARAPSLSSNPESLPGSPALPPVQDEVFEFPG  
 VTARHRDLDSRDITLVTGSSRKISVRVQRATTSQATQTEPVWSEAVWGDGSGSHTFPKMKSKLHDKAAKDK  
 GFAKWENEKPTLHAGVDVDRGTAFEPDQDDEQDEAQQGVEDGHSNLTRTMSKMKPNRVSRM

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

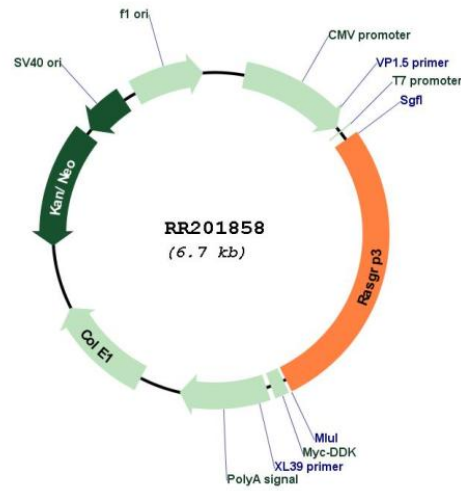
## Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

## Plasmid Map:



ACCN: NM\_001108009

ORF Size: 1809 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq Size:</b>	4293 bp
<b>RefSeq ORF:</b>	1812 bp
<b>Locus ID:</b>	313874
<b>Cytogenetics:</b>	6q12-q13
<b>MW:</b>	68.3 kDa